ACCUMULATED REPAIR COSTS AS A PERCENT OF PURCHASE PRICE ** Page 1 of 2

Machine	1/4 LIFE Accumulated Hours - Costs		Accum						
			5,000		-		•		
Crawlers	4,000		8,000		-				
Combines	500	2.7%	1,000	9.5%	1,500	19.6%	2,000	33.0%	
Cotton Pickers Corn Pickers Cotton Strippers		8.2%	1,000	24.7%	1,500	47.3%	2,000	75.0%	
Planters, Drills	250	8.2%	500	24.7%	750	47.3%	,000,	75.0%	
Mowers	250	29.7%	500	73.1%	750	123.7%	1,000	180.0%	
Plows Swathers Balers Balewagons Forage Harvesters		13.2%	1,000	32.5%	1,500	55.0%	2,000	80.0%	
Disks Chisel Plows Field Cultivators	500	5.3%	.,000	18.7%	,500	38.7%	2,000	65.0%	

^{**} Repair cost estimates do not include the effect of inflation over the period of ownership.

Sources: Adapted from data from Agricultural Engineering Department, University of Illinois, and the Agricultural Engineering Handbook.

ACCUMULATED REPAIR COSTS AS A PERCENT OF PURCHASE PRICE

Page 2 of 2

Example 1:

\$45,000 was paid for a 2-wheel drive tractor ten years ago. The tractor hour meter shows 7,342 hours. According to the above table, 7,342 hours is about three-fourths life. The table shows repair costs to average 56.8% at this point:

 $0.568 \times $45,000 = $25,560$

In this example, \$25,560 has been spent over the last ten years for repairs. Cost per hour would be:

\$25,560/7,342 = \$3.48 per hour

Example 2:

The same tractor in example 1 is used to pull a swather and covers about 5 acres per hour. The swather has been used for 600 hours and cost \$5,000 when bought 3 years ago. What would be the estimated repair cost per acre of both pieces of equipment?

Tractor repair cost = \$3.48 per hour

Swather repair cost = $0.132 \times \$5,000 = \$660/600 = \$1.10$ per hour

3.48 + 10 = 4.58/5 = 0.92 per acre